

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute of form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/652,587
		Filing Date	August 29, 2003
		First Name Inventor	Masood Akhtar
		Group Art Unit	Not available
		Examiner Name	Not available
Attorney Docket Number	016260-9005-02		

U.S. PATENT DOCUMENTS

Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
AA	AA	5,460,697	Akhtar et al.	October 24, 1995
	AB	5,750,005	Akhtar, M.	May 12, 1998
	AC	5,055,159	Blanchette et al.	October 8, 1991
	AD	3,962,033	Eriksson et al.	June 8, 1976

FOREIGN PATENT DOCUMENTS

Examiner Initials		Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
AE	AE	PCT	WO 96/05362 A1	Wisconsin Alumni Research Foundation	February 22, 1996		

Examiner Signature	ALW	Date Considered	1/14/05
--------------------	-----	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer. Patent and Trademark Office, Washington, DC 0231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB number.

Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/652,587
		Filing Date	August 29, 2003
		First Named Inventor	Masood Akhtar
		Group Art Unit	Not available
		Examiner Name	Not available
		Attorney Docket Number	016260-9005-02

(Use as many sheets as necessary)

Sheet

1

of

3

DEC 01 2003

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTSExaminer
Initials

Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.

AF

Akhtar, *et al.*, "Biomechanical Pulping of Loblolly Pine With Different Strains of the White-Rot Fungus *Ceriporiopsis Subvermispora*", *Tappi J.*, Feb. 1992, pp. 105-109.

AG

Bar-Lev, *et al.*, "Fungal Treatment Can Reduce Energy Requirements for Secondary Refining of TMP", *Tappi J.*, Oct. 1982, pp. 111-113.

AH

Blanchette, R., "Screening Wood Decayed by White Rot Fungi for Preferential Lignin Degradation", *Applied and Environmental Microbiology*, Sep. 1984, pp. 647-653.

AI

Lawson, L. and Still, C., "The Biological Decomposition of Lignin - Literature Survey", *Tappi J.*, Vol. 40 No. 9, Sep. 1957, pp. 56A-80A.

AJ

Myers, *et al.*, "Fungal Pretreatment of Aspen Chips Improves Strength of Refiner Mechanical Pulp", *Tappi J.*, May 1988, pp. 105-108.

AK

Leatham, *et al.*, "Energy Savings in Biomechanical Pulping", *4th International Conference*, Raleigh, NC, May 16-19, 1989.

AL

Leatham, *et al.*, "Biomechanical Pulping of Aspen Chips: Paper Strength and Optical Properties Resulting from Different Fungal Treatments", *Tappi J.*, Mar. 1990, pp. 249-255.

AM

Leatham, *et al.*, "Biomechanical Pulping of Aspen Chips: Energy Savings Resulting from Different Fungal Treatments", *Tappi J.*, May 1990, pp. 197-200.

AN

Oriaran, *et al.*, "Kraft Pulp and Papermaking Properties of *Phanerochaete Chrysosporium*-degraded Aspen", *Tappi J.*, Jul. 1990, pp. 147-152.Examiner
Signature

ALV

Date

Considered

1-14-05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB number.

Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/652,587
		Filing Date	August 29, 2003
		First Named Inventor	Masood Akhtar
		Group Art Unit	Not available
		Examiner Name	Not available
Sheet 1 of 2	2 of 3	Attorney Docket Number	016260-9005-02

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
AO	Yang, <i>et al.</i> , "Bleaching of Softwood Kraft Pulps with the EnZone Process", <i>Tappi J.</i> , Vol. 77 No. 3, See Abstract, Mar. 1994, pp. 243-250.
AP	Akhtar, M., Attridge, M.C., Myers, G.C. and Blanchette, R.A. "Biomechanical Pulping of Loblolly Pine Chips with Selected White-Rot Fungi", <i>Holzforschung</i> , 1993, 47(1), 36-40.
AQ	Ander, P. and Eriksson, K.E. "Mekanisk massa från förrötad flis – en inledande undersökning", <i>Svensk Papperstidning</i> , 1975, 18, 641.
AR	Blanchette, R.A. and Burnes, T.A., "Selection of White-Rot Fungi for Biopulping", <i>Biomass</i> , 1988, 15, 93-101.
AS	Eriksson, K.E. and Vallander, L., "Properties of Pulps from Thermomechanical Pulping of Chips Pretreated with Fungi", <i>Svensk Papperstidning</i> , 1982, 85(6), R33-R38.
AT	Labosky Jr., P., Zhang, J. and Royse, D.J., "Lignin Biodegradation of Nitrogen Supplemented Red Oak (<i>Quercus Rubra</i>) Wood Chips with Two Strains of <i>Phanerochaete Chrysosporium</i> ", <i>Wood and Fiber Sci.</i> , 1991, 23, 533-542.
AU	Messner, K., Masek, S., Srebotnik, E. and Techt, G., "Fungal Pretreatment of Wood Chips for Chemical Pulping", <i>Biotechnology in the Pulp and Paper Industry, Proceedings of the 5th International Conference on Biotechnology in the Pulp and Paper Industry</i> (Kuwahara, M. and Shimada, M., eds.) 1992, pp. 9-13.
AV	Oriaran, T. Ph., Labosky Jr., P. and Blankenhorn, P.R., "Kraft Pulp and Papermaking Properties of <i>Phanerochaete Chrysosporium</i> Degraded Red Oak", <i>Wood and Fiber Sci.</i> , 1991, 23, 316-327.
AW	Scott, G.M., Akhtar, M., Lentz, M., Sykes, M. and Abubakr, S., "Biosulfite Pulping Using <i>Ceriporiopsis Subvermispora</i> ", (Srebotnik, E., Messner, K. eds.), <i>Facultas-Universitats Verlag, Bergasse 5, A-1090 Wien, Austria</i> , 1996, p. 217-219.

Examiner Signature	ALVO	Date Considered	1/14/05
--------------------	------	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/652,587
				Filing Date	August 29, 2003
				First Named Inventor	Masood Akhtar
				Group Art Unit	Not available
				Examiner Name	Not available
Sheet	3	of	3	Attorney Docket Number	016260-9005-02

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.	
AX	Wolfaardt, J.F., Boshoff, I.E., Bosman, J.L., Rabie, C.J. and van der Westhuizen, G.C.A., "Lignin Degrading Potential of South African Wood-Decay Fungi", <i>FEMS Symposium, Lignin Biodegradation and Transformation, Book of Proceedings</i> (Duarte, J.C., Ferreira, M.C. and Ander, P., Eds.), Forbitech Editions, Lisboa. 1993, pp. 67-69.
AY	Wolfaardt, J.F., Bosman, J.L., Jacobs, A., Male, J.R. and Rabie, C.J., "Bio-Kraft Pulping of Softwood", <i>Proceedings of the 6th International Conference on Biotechnology in the Pulp and Paper Industry: Advances in Applied and Fundamental Research</i> (Srebotnik, E., Messner, K. eds.), Facultas-Universitatis Verlag, Bergasse 5, A-1090 Wien, Austria, 1996, p. 211-216.
AZ	Akhtar, M., et al., "The White-Rot Fungus <i>Ceriporiopsis Subvermispora</i> Saves Electrical Energy and Improves Strength Properties During Biomechanical Pulping of Wood", <i>Proceedings of the 5th International Conference on Biotechnology in the Pulp and Paper Industry</i> , Kyoto Japan, May 27-30, 1992, p. 3-8.
BA	Akhtar, M., et al., "Toward Commercialization of Biopulping", <i>PaperAge</i> , Feb. 1999, p. 1-4.
BB	Scott, G.M., Akhtar, M., Lentz, M., Sykes, M., and Abukar, S. 1995. In <i>Proceedings of the 1995 Environmental Conference</i> , pages 1155-1161, Atlanta: Tappi Press

Examiner Signature	ALVO	Date Considered	1-14-05
--------------------	------	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.